

SN 10/534,034

INVENTOR SEARCH

=> d ibib abs ind 14 1-2

L4 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2006:238350 HCAPLUS Full-text  
DOCUMENT NUMBER: 144:298866  
TITLE: Topical **anhydrous** delivery systems for  
antioxidants  
INVENTOR(S): Chaudhuri, Ratan; Linz, Philip  
PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Germany  
SOURCE: U.S. Pat. Appl. Publ., 10 pp., Cont.-in-part of U.S.  
Ser. No. 616,494.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 4  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006057169	A1	20060316	US 2005-534034	20050506
US 2004076699	A1	20040422	US 2003-616494	20030710
WO 2004041234	A1	20040521	WO 2003-EP11846	20031024

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,  
PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,  
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,  
FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,  
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:  
US 2002-395612P P 20020715  
US 2002-424316P P 20021107  
US 2003-616494 A2 20030710  
WO 2003-EP11846 W 20031024

AB This invention relates to an **anhydrous** composition comprising an antioxidant comprising over 40% by weight of hydrolysable tannins having mol.-weight of <1000 and a substantially **anhydrous** or non-aqueous liquid vehicle functioning to disperse the antioxidant. The composition is suitable as a cosmetic composition and/or therapeutic and/or prophylactic composition and/or **anhydrous** delivery system of cosmetic and/or pharmaceutical ingredients. The invention further relates to processes for producing such comps. Thus, a sunscreen formulation contained Biron LF-2000 3.00, Dow Corning-345 36.00, and Dow Corning-9040 37.00%, in addition to the usual sunscreen components.

INCL 424401000

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 63

ST topical **anhyd** delivery antioxidant

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);

USES (Uses)

(di-Me, polyoxyethylene-polyoxypropylene-, block, Gransil PM Gel, Gransil DMG 6; topical **anhydrous** delivery systems for antioxidants)

IT Glycols, biological studies  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)  
 (esters; topical **anhydrous** delivery systems for antioxidants)

IT Alcohols, biological studies  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)  
 (fatty; topical **anhydrous** delivery systems for antioxidants)

IT Antioxidants  
 Antiperspirants  
 Cosmetics  
 Gelation agents  
 Phyllanthus emblica  
 Skin  
 Sunscreens  
 (topical **anhydrous** delivery systems for antioxidants)

IT Esters, biological studies  
 Glycerides, biological studies  
 Glycols, biological studies  
 Paraffin oils  
 Polymers, biological studies  
 Polyoxyalkylenes, biological studies  
 Polysiloxanes, biological studies  
 Silicone rubber, biological studies  
 Tannins  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)  
 (topical **anhydrous** delivery systems for antioxidants)

IT Drug delivery systems  
 (topical; topical **anhydrous** delivery systems for antioxidants)

IT 541-02-6 7045-42-3, Pedunculagin 7787-59-9, Biron LF-2000 9002-88-4,  
 Polyethylene 9006-65-9, Dimethicone 25322-68-3, Polyethylene glycol  
 103488-38-6, Punigluconin 180465-44-5 180465-45-6, Emblicanin B  
 199944-41-7, Gransil GCM 344781-69-7, Dow Corning 9040  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)  
 (topical **anhydrous** delivery systems for antioxidants)

L4 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:331593 HCAPLUS Full-text

DOCUMENT NUMBER: 140:344524

TITLE: Topical **anhydrous** delivery system comprising  
 antioxidant and **anhydrous** or non-aqueous  
 liquid vehicle

INVENTOR(S): Chaudhuri, Ratan K.; Linz, Philip

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 10 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
US 2004076699	A1	20040422	US 2003-616494	20030710
WO 2004041234	A1	20040521	WO 2003-EP11846	20031024
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				

LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,  
 PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,  
 TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,  
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,  
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
 AU 2003276180 A1 20040607 AU 2003-276180 20031024  
 EP 1558207 A1 20050803 EP 2003-810406 20031024  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK  
 JP 2006511597 T2 20060406 JP 2005-502100 20031024  
 US 2006057169 A1 20060316 US 2005-534034 20050506  
 PRIORITY APPLN. INFO.: US 2002-395612P P 20020715  
 US 2002-424316P P 20021107  
 US 2003-616494 A 20030710  
 WO 2003-EP11846 W 20031024  
 AB The present invention relates to novel compns. including cosmetic compns.  
 and/or therapeutic and/or prophylactic novel **anhydrous** delivery systems of  
 cosmetic and/or pharmaceutical ingredients, and especially those including low  
 mol.-weight hydrolysable tannins (<1,000) found in exts. of Phyllanthus  
 emblica, and processes for producing such compns. Specifically the **anhydrous**  
 composition comprises an antioxidant comprising over 40% by weight of  
 hydrolysable tannins comprising Emblicanin A., Emblicanin B, Pedunculagin and  
 Punigluconin, and a substantially **anhydrous** or non-aqueous liquid vehicle  
 functioning to disperse the antioxidant.  
 IC ICM A61K035-78  
 ICS A61K031-7024  
 INCL 424775000; 514023000  
 CC 62-4 (Essential Oils and Cosmetics)  
 ST topical **anhyd** delivery system antioxidant  
 IT Skin  
 (anhydrous composition with improved feel of; topical **anhyd**  
 . delivery system comprising antioxidant and **anhydrous** or  
 non-aqueous liquid vehicle)  
 IT Gelation agents  
 Sunscreens  
 (anhydrous delivery system comprising; topical **anhydrous**  
 delivery system comprising antioxidant and **anhydrous** or non-aqueous  
 liquid vehicle)  
 IT Esters, biological studies  
 Flavonoids  
 Glycols, biological studies  
 Polyoxyalkylenes, biological studies  
 Silicone rubber, biological studies  
 Tannins  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)  
 (anhydrous delivery system comprising; topical **anhydrous**  
 delivery system comprising antioxidant and **anhydrous** or non-aqueous  
 liquid vehicle)  
 IT UV radiation  
 (antioxidant with absorbance to; topical **anhydrous** delivery  
 system comprising antioxidant and **anhydrous** or non-aqueous liquid  
 vehicle)  
 IT Glycols, biological studies  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)  
 (esters, **anhydrous** delivery system comprising; topical  
**anhydrous** delivery system comprising antioxidant and **anhyd**

. or non-aqueous liquid vehicle)

IT Alcohols, biological studies  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)  
 (fatty, high m.p., **anhydrous** delivery system comprising; topical  
**anhydrous** delivery system comprising antioxidant and **anhyd**  
 . or non-aqueous liquid vehicle)

IT Polysiloxanes, biological studies  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)  
 (fluid; topical **anhydrous** delivery system comprising antioxidant  
 and **anhydrous** or non-aqueous liquid vehicle)

IT Paraffin oils  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)  
 (gelled natural; topical **anhydrous** delivery system comprising  
 antioxidant and **anhydrous** or non-aqueous liquid vehicle)

IT Antioxidants  
 (topical **anhydrous** delivery system comprising antioxidant and  
**anhydrous** or non-aqueous liquid vehicle)

IT 56-81-5D, Glycerol, esters 153-18-4, Rutin 7045-42-3, Pedunculagin  
 7787-59-9, Bismuth oxychloride 9002-88-4, Polyethylene 25322-68-3,  
 Polyethylene glycol 103488-38-6, Punigluconin 180465-44-5, Emblicanin  
 A 180465-45-6, Emblicanin B  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)  
 (**anhydrous** delivery system comprising; topical **anhydrous**  
 delivery system comprising antioxidant and **anhydrous** or non-aqueous  
 liquid vehicle)

SEARCH IN CAPLUS AND USPATFULL

=> d que stat 130

L6 4 SEA FILE=REGISTRY ABB=ON (EMBLICANIN A OR EMBLICANIN B OR  
PEDUNCULAGIN OR PUNIGLUCONIN)/CN  
L7 1 SEA FILE=REGISTRY ABB=ON RUTIN/CN  
L8 6 SEA FILE=REGISTRY ABB=ON SILICONE FLUID?/CN  
L9 0 SEA FILE=REGISTRY ABB=ON ORGANIC ESTER?/CN  
L12 211 SEA FILE=HCAPLUS ABB=ON L6 OR (EMBLICANIN) (W) (A OR B) OR  
PEDUNCULAGIN OR PUNIGLUCONIN  
L13 10 SEA FILE=HCAPLUS ABB=ON L12 AND (L7 OR ?RUTIN?)  
L14 1 SEA FILE=HCAPLUS ABB=ON L13 AND (?ANHYDR? OR NON? (W) ?AQUEOUS?)  
  
L15 2 SEA FILE=HCAPLUS ABB=ON L12 AND (L8 OR ?SILICONE? (W) ?FLUID?  
OR L9 OR ?ORGANIC? (W) ?ESTER? OR ?GLYCOL?)  
L16 11 SEA FILE=HCAPLUS ABB=ON L13 OR L14 OR L15  
L19 9 SEA FILE=HCAPLUS ABB=ON L16 AND (PRD<20030710 OR PD<20030710)  
L22 25 SEA FILE=USPATFULL ABB=ON L6 OR (EMBLICANIN) (W) (A OR B) OR  
PEDUNCULAGIN OR PUNIGLUCONIN  
L23 18 SEA FILE=USPATFULL ABB=ON L22 AND (L7 OR ?RUTIN?)  
L24 6 SEA FILE=USPATFULL ABB=ON L23 AND (?ANHYDR? OR NON? (W) ?AQUEOUS  
?)  
L25 2 SEA FILE=USPATFULL ABB=ON L23 AND (L8 OR ?SILICONE? (W) ?FLUID?  
OR L9 OR ?ORGANIC? (W) ?ESTER?)  
L26 18 SEA FILE=USPATFULL ABB=ON L23 OR L24 OR L25  
L27 14 SEA FILE=USPATFULL ABB=ON L26 AND .01%  
L28 18 SEA FILE=USPATFULL ABB=ON L26 OR L27  
L29 12 SEA FILE=USPATFULL ABB=ON L28 AND (PRD<20030710 OR PD<20030710  
)  
L30 18 DUP REMOV L19 L29 (3 DUPLICATES REMOVED)

=> d ibib abs 130 1-18

L30 ANSWER 1 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 1  
ACCESSION NUMBER: 2006:238350 HCAPLUS Full-text  
DOCUMENT NUMBER: 144:298866  
TITLE: Topical anhydrous delivery systems for antioxidants  
INVENTOR(S): Chaudhuri, Ratan; Linz, Philip  
PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Germany  
SOURCE: U.S. Pat. Appl. Publ., 10 pp., Cont.-in-part of U.S.  
Ser. No. 616,494.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 4  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006057169	A1	20060316	US 2005-534034	20050506 <--
US 2004076699	A1	20040422	US 2003-616494	20030710 <--
WO 2004041234	A1	20040521	WO 2003-EP11846	20031024 <--

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,  
PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,  
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,  
FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,  
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2002-395612P P 20020715 <--  
US 2002-424316P P 20021107 <--  
US 2003-616494 A2 20030710  
WO 2003-EP11846 W 20031024

AB This invention relates to an anhydrous composition comprising an antioxidant comprising over 40% by weight of hydrolysable tannins having mol.-weight of <1000 and a substantially anhydrous or non-aqueous liquid vehicle functioning to disperse the antioxidant. The composition is suitable as a cosmetic composition and/or therapeutic and/or prophylactic composition and/or anhydrous delivery system of cosmetic and/or pharmaceutical ingredients. The invention further relates to processes for producing such comps. Thus, a sunscreen formulation contained Biron LF-2000 3.00, Dow Corning-345 36.00, and Dow Corning-9040 37.00%, in addition to the usual sunscreen components.

L30 ANSWER 2 OF 18 USPATFULL on STN

ACCESSION NUMBER: 2005:233021 USPATFULL Full-text  
TITLE: Use of compatible solutes for inhibiting the release of ceramides  
INVENTOR(S): Bunger, Joachim, Gross-Umstadt, GERMANY, FEDERAL REPUBLIC OF  
Krutmann, Jean, Wagberg, GERMANY, FEDERAL REPUBLIC OF

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005201955	A1	20050915
APPLICATION INFO.:	US 2003-509368	A1	20030303 (10)
	WO 2003-EP2146		20030303
			20040928 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2002-10214257	20020328 <--
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MILLEN, WHITE, ZELANO & BRANIGAN, P.C., 2200 CLARENDON BLVD., SUITE 1400, ARLINGTON, VA, 22201, US	
NUMBER OF CLAIMS:	19	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	4 Drawing Page(s)	
LINE COUNT:	1212	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to the use of compatible solutes for inhibiting the release of ceramides or for the prophylaxis and protection of human skin against premature skin ageing and for the prophylaxis and protection of human skin against wrinkling.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L30 ANSWER 3 OF 18 USPATFULL on STN

ACCESSION NUMBER: 2005:104656 USPATFULL Full-text  
TITLE: Skin-lightening composition  
INVENTOR(S): Chaudhuri, Ratan K., Lincoln Park, NJ, UNITED STATES  
Marchio, Francois, New York, NY, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005089589	A1	20050428
APPLICATION INFO.:	US 2003-501752	A1	20030116 (10)
	WO 2003-EP401		20030116

	NUMBER	DATE	
PRIORITY INFORMATION:	US 2002-120156	20020411	<--
	US 2003-349224P	20020118 (60)	<--
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	MILLEN, WHITE, ZELANO & BRANIGAN, P.C., 2200 CLARENDON BLVD., SUITE 1400, ARLINGTON, VA, 22201, US		
NUMBER OF CLAIMS:	32		
EXEMPLARY CLAIM:	1		
LINE COUNT:	670		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A light colored standardized extract of *Emblica officinalis* consisting essentially of over 40% by weight of **Emblicanin A**, **Emblicanin B**, **Pedunculagin** and **Punigluconin**, and not more than about 1% by weight of flavonoids, and methods of producing same. Also disclosed are cosmetic or pharmaceutical compositions comprising the standardized extract and methods of using same to lighten or whiten skin.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L30 ANSWER 4 OF 18 USPATFULL on STN  
 ACCESSION NUMBER: 2005:10458 USPATFULL Full-text  
 TITLE: Effective method for regulating the appearance of skin  
 INVENTOR(S): Chaudhuri, Ratan, Lincoln Park, NJ, UNITED STATES  
 PATENT ASSIGNEE(S): EM Industries, Hawthorne, NY, UNITED STATES (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005008590	A1	20050113
APPLICATION INFO.:	US 2003-616299	A1	20030710 (10)

	NUMBER	DATE	
PRIORITY INFORMATION:	US 2002-395612P	20020715 (60)	<--
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	MILLEN, WHITE, ZELANO & BRANIGAN, P.C., 2200 CLARENDON BLVD., SUITE 1400, ARLINGTON, VA, 22201		
NUMBER OF CLAIMS:	8		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	2 Drawing Page(s)		
LINE COUNT:	580		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for regulating the appearance of skin comprising topically apply to said skin a composition comprising a cosmetically or pharmaceutically acceptable carrier and about 0.1% to about 40% of an extract comprising low molecular weight hydrolysable tannins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L30 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 2  
 ACCESSION NUMBER: 2004:331593 HCAPLUS Full-text  
 DOCUMENT NUMBER: 140:344524  
 TITLE: Topical **anhydrous** delivery system comprising  
 antioxidant and **anhydrous** or non-  
**aqueous** liquid vehicle  
 INVENTOR(S): Chaudhuri, Ratan K.; Linz, Philip  
 PATENT ASSIGNEE(S): USA  
 SOURCE: U.S. Pat. Appl. Publ., 10 pp.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 4  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004076699	A1	20040422	US 2003-616494	20030710 <--
WO 2004041234	A1	20040521	WO 2003-EP11846	20031024 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003276180	A1	20040607	AU 2003-276180	20031024 <--
EP 1558207	A1	20050803	EP 2003-810406	20031024 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006511597	T2	20060406	JP 2005-502100	20031024 <--
US 2006057169	A1	20060316	US 2005-534034	20050506 <--
PRIORITY APPLN. INFO.: US 2002-395612P P 20020715 <--				
US 2002-424316P P 20021107 <--				
US 2003-616494 A 20030710				
WO 2003-EP11846 W 20031024				

AB The present invention relates to novel compns. including cosmetic compns. and/or therapeutic and/or prophylactic novel **anhydrous** delivery systems of cosmetic and/or pharmaceutical ingredients, and especially those including low mol.-weight hydrolysable tannins (<1,000) found in exts. of *Phyllanthus emblica*, and processes for producing such compns. Specifically the **anhydrous** composition comprises an antioxidant comprising over 40% by weight of hydrolysable tannins comprising **Emblicanin A**, **Emblicanin B**, **Pedunculagin** and **Punigluconin**, and a substantially **anhydrous** or non-aqueous liquid vehicle functioning to disperse the antioxidant.

L30 ANSWER 6 OF 18 USPATFULL on STN  
 ACCESSION NUMBER: 2004:320679 USPATFULL Full-text  
 TITLE: Method for regulating the appearance of skin containing  
 combination of skin care actives  
 INVENTOR(S): Chaudhuri, Ratan K., Lincoln Park, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004253332	A1	20041216



APPLICATION INFO.: US 2004-803160 A1 20040318 (10)  
RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2002-120156, filed  
on 11 Apr 2002, GRANTED, Pat. No. US 6649150  
Continuation-in-part of Ser. No. US 2003-616299, filed  
on 10 Jul 2003, PENDING

	NUMBER	DATE	
PRIORITY INFORMATION:	US 2003-455396P	20030318 (60)	<--
	US 2002-395612P	20020715 (60)	<--
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	MILLEN, WHITE, ZELANO & BRANIGAN, P.C., 2200 CLARENDON BLVD., SUITE 1400, ARLINGTON, VA, 22201		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	5 Drawing Page(s)		
LINE COUNT:	1053		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for regulating the appearance of skin comprising topically applying to said skin a composition comprising: (a) a cosmetically or pharmaceutically acceptable carrier and about 0.05% to about 5% of an extract comprising a low molecular weight hydrolysable tannins, and mixtures thereof; (b) an effective amount of at least one additional skin care active ingredient selected from the group consisting of ant-acne actives, retinoids, ant-cellulite agents, antimicrobial actives, antifungal agents, vitamins, anti-inflammatory agents, tanning agents, allantoin, glucosamine, phytantriol, hydroxyacids, niacinamide, phytosterols, sunscreens and mixtures thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L30 ANSWER 7 OF 18 USPATFULL on STN

ACCESSION NUMBER: 2004:239267 USPATFULL Full-text  
TITLE: Cosmetic formulation comprising dihydroxyacetone  
INVENTOR(S): Hitzel, Sabine, Flachsbadweg, GERMANY, FEDERAL  
REPUBLIC OF  
Driller, Hans-Jurgen, Santo-Tirso-Ring, GERMANY,  
FEDERAL REPUBLIC OF

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004185072	A1	20040923
APPLICATION INFO.:	US 2004-485389	A1	20040130 (10)
	WO 2002-EP7522		20020705

	NUMBER	DATE	
PRIORITY INFORMATION:	DE 2001-10137260	20010731	<--
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	MILLEN, WHITE, ZELANO & BRANIGAN, P.C., 2200 CLARENDON BLVD., SUITE 1400, ARLINGTON, VA, 22201		
NUMBER OF CLAIMS:	8		
EXEMPLARY CLAIM:	1		
LINE COUNT:	725		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to cosmetic formulations containing dihydroxy-acetone and a topical support in addition to one or several compounds selected from

the compounds of formulae (Ia) and (Ib), the physiologically acceptable salts of compounds of formulae (Ia) and (Ib), and the stereoisomeric forms of formulae (Ia) and (Ib), wherein R.sup.1, R.sup.2, R.sup.3, R.sup.4 and n have the meanings cited in Claim 1. The cosmetic formulations are characterized in that the UV-A protective effect of dihydroxyacetone is increased.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L30 ANSWER 8 OF 18. USPATFULL on STN

ACCESSION NUMBER: 2004:164960 USPATFULL Full-text  
TITLE: Enriched aqueous components of emblica officinalis  
INVENTOR(S): Chaudhuri, Ratan K., Lincoln Park, NJ, UNITED STATES  
Puccetti, Germain, Ossining, NY, UNITED STATES  
PATENT ASSIGNEE(S): EM Industries, Hawthorne, NY (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004126446	A1	20040701
	US 2005064053	A2	20050324
APPLICATION INFO.:	US 2003-660742	A1	20030912 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-424712P	20021108 (60) <--
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MILLEN, WHITE, ZELANO & BRANIGAN, P.C., 2200 CLARENDON BLVD., SUITE 1400, ARLINGTON, VA, 22201	
NUMBER OF CLAIMS:	35	
EXEMPLARY CLAIM:	1	
LINE COUNT:	676	

AB In an extraction process comprising extracting a raw extract from Emblica officinalis the improvement comprising conducting the extraction under conditions of time, temperature and atmosphere, to inhibit the formation of black specks and/or oligomeric and/or polymeric tannins and/or oxidation products thereof.

L30 ANSWER 9 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:992733 HCAPLUS Full-text  
DOCUMENT NUMBER: 140:264436  
TITLE: Screening of the inhibitory effect of vegetable constituents on the aryl hydrocarbon receptor-mediated activity induced by 2,3,7,8-tetrachlorodibenzo-p-dioxin  
AUTHOR(S): Amakura, Yoshiaki; Tsutsumi, Tomoaki; Sasaki, Kumiko; Yoshida, Takashi; Maitani, Tamio  
CORPORATE SOURCE: Division of Foods, National Institute of Health Sciences, Tokyo, 158-8501, Japan  
SOURCE: Biological & Pharmaceutical Bulletin (2003), 26(12), 1754-1760  
CODEN: BPBLEO; ISSN: 0918-6158  
PUBLISHER: Pharmaceutical Society of Japan  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB The aryl hydrocarbon receptor (AhR) is a ligand-activated nuclear transcription factor that mediates responses to environmental contaminants such as dioxins, which have many adverse health effects. We performed a preliminary screening of the inhibitory effects of vegetable constituents on 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)-induced activation of AhR using the AhR-based bioassay for dioxins, the Ah-Immunoassay. Ninety vegetable constituents including flavonoids, tannins, saponins, terpenes, etc., were assayed in vitro. Among them, flavones, flavonols, anthraquinones, piperine, coumestrol, brevifolincarboxylic acid, and resveratrol showed marked inhibitory effects on AhR-based bioassay activation by TCDD, and their effects were dose dependent. Curcumin, carnosol, and capsaicin also inhibited the activation of AhR in this assay, although to a lesser degree. These results suggest that several vegetable constituents might play a role in protection against dioxin toxicity.

REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 10 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:502998 HCAPLUS Full-text

DOCUMENT NUMBER: 140:1720

TITLE: Activation of the aryl hydrocarbon receptor by some vegetable constituents determined using in vitro reporter gene assay

AUTHOR(S): Amakura, Yoshiaki; Tsutsumi, Tomoaki; Nakamura, Masafumi; Kitagawa, Hiroko; Fujino, Junko; Sasaki, Kumiko; Toyoda, Masatake; Yoshida, Takashi; Maitani, Tamio

CORPORATE SOURCE: Division of Foods, National Institute of Health Sciences, Tokyo, 158-8501, Japan

SOURCE: Biological & Pharmaceutical Bulletin (2003), 26(4), 532-539

CODEN: BPBLEO; ISSN: 0918-6158

PUBLISHER: Pharmaceutical Society of Japan

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The aryl hydrocarbon receptor (AhR) is a ligand-activated transcription factor that mediates the biol. action of many aromatic environmental pollutants. In this study, we investigated the activation of the AhR by some vegetable constituents using the AhR-based bioassay for dioxins, i.e., the chemical activated luciferase gene expression (CALUX) assay. Ninety-five vegetable constituents, including flavonoids, tannins, saponins, and terpenes, were tested in vitro. Among them, isoflavones such as daidzein, resveratrol having a stilbene structure, and some flavonoids such as naringenin, hesperetin, and baicalein showed AhR activation.

REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 11 OF 18 USPATFULL on STN

ACCESSION NUMBER: 2002:63889 USPATFULL Full-text

TITLE: Method of blocking free radical processes which result in mediated pathology without deleterious pro-oxidant side reactions

INVENTOR(S): Ghosal, Shibnath, Varanasi, INDIA

PATENT ASSIGNEE(S): Natreon Inc., New Brunswick, NJ, United States (U.S. corporation)  
Indian Herbs Research & Supply Company Ltd., Sharanpur, INDIA (non-U.S. corporation)

NUMBER KIND DATE

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PATENT INFORMATION: US 6362167 B1 20020326 <--  
 APPLICATION INFO.: US 2000-667043 20000921 (9)  
 RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1999-251917, filed  
 on 17 Feb 1999, now patented, Pat. No. US 6124268  
 Continuation-in-part of Ser. No. US 2000-503899, filed  
 on 15 Feb 2000, now patented, Pat. No. US 6235721

DOCUMENT TYPE: Utility  
 FILE SEGMENT: GRANTED  
 PRIMARY EXAMINER: Krass, Frederick  
 LEGAL REPRESENTATIVE: Katz, Walter  
 NUMBER OF CLAIMS: 8  
 EXEMPLARY CLAIM: 1  
 NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)  
 LINE COUNT: 356

AB A method of blocking free radical processes in an animal which result in mediated pathology without deleterious pro-oxidant side reactions which comprises administering an extract of the fruit of the *Embllica officinalis* plant to effect such advantageous result, preferably in a use formulation at an active use level of 0.005 to 5% by weight of the formulation.

L30 ANSWER 12 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2003:311088 HCAPLUS Full-text  
 DOCUMENT NUMBER: 139:390383  
 TITLE: Progress in studies on chemical constituents and pharmacological effects of Punicaceae  
 AUTHOR(S): Li, Haixia; Wang, Zhao; Liu, Yanze  
 CORPORATE SOURCE: Department of Biological Sciences and Biotechnology, Tsinghua University, Beijing, 100084, Peop. Rep. China  
 SOURCE: Zhongcaoyao (2002), 33(8), 765-766, S1-S3  
 CODEN: CTYAD8; ISSN: 0253-2670  
 PUBLISHER: Zhongcaoyao Zazhi Bianjibu  
 DOCUMENT TYPE: Journal; General Review  
 LANGUAGE: Chinese

AB A review on progress in studies on chemical constituents and pharmacol. effects of Punicaceae with subdivision headings: (1) chemical constituents; (2) pharmacol. activities; and (3) conclusion.

L30 ANSWER 13 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 3  
 ACCESSION NUMBER: 2001:366717 HCAPLUS Full-text  
 DOCUMENT NUMBER: 134:371788  
 TITLE: Stabilization of vitamin C with antioxidant blend extracted from *Embllica officinalis* fruit.  
 INVENTOR(S): Ghosal, Shibnath  
 PATENT ASSIGNEE(S): Natreon Inc., USA  
 SOURCE: U.S., 10 pp., Cont.-in-part of U.S. 6,124,268.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 4  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
US 6235721	B1	20010522	US 2000-503899	20000215 <--
US 6124268	A	20000926	US 1999-251917	19990217 <--
CA 2362346	AA	20000824	CA 2000-2362346	20000216 <--

WO 2000048551 A1 20000824 WO 2000-US4043 20000216 <--  
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,  
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,  
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,  
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,  
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW  
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,  
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,  
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
AU 2000029994 A5 20000904 AU 2000-29994 20000216 <--  
EP 1156770 A1 20011128 EP 2000-908698 20000216 <--  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO  
US 6290996 B1 20010918 US 2000-667042 20000921 <--  
US 6362167 B1 20020326 US 2000-667043 20000921 <--  
PRIORITY APPLN. INFO.: US 1999-251917 A2 19990217 <--  
US 2000-503899 A 20000215 <--  
WO 2000-US4043 W 20000216 <--

AB A natural antioxidant blend in the form of an amorphous powder was obtained by extraction from *Emblica officinalis* fruit. In this process, the finely pulped fruit was treated with a dilute aqueous salt solution at hot water temperature to provide an extract-containing solution, which was filtered and dried to provide the desired antioxidant blend powder. A synergistically stabilized composition of ascorbic acid or its derivs. with the antioxidant composition of *E. officinalis*, is also described. Cosmetic, pharmaceutical and nutritional use formulations also are described.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 14 OF 18 USPATFULL on STN  
ACCESSION NUMBER: 2001:157832 USPATFULL Full-text  
TITLE: Method of inhibiting blood platelet aggregation  
INVENTOR(S): Ghosal, Shibnath, Varanasi, India  
PATENT ASSIGNEE(S): Natreon Inc., New Brunswick, NJ, United States (U.S. corporation)  
Indian Herbs Research & Supply Company LTD, Saharanpur, India (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6290996	B1	20010918 <--
APPLICATION INFO.:	US 2000-667042		20000921 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2000-503899, filed on 15 Feb 2000, now patented, Pat. No. US 6235721		
	Continuation-in-part of Ser. No. US 1999-251917, filed on 17 Feb 1999, now patented, Pat. No. US 6124268		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Krass, Frederick		
LEGAL REPRESENTATIVE:	Katz, Walter		
NUMBER OF CLAIMS:	8		
EXEMPLARY CLAIM:	1		
LINE COUNT:	214		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method of inhibiting blood platelet aggregation in humans which comprises administering an extract blend of the fruit of the *Emblica officinalis* plant to control said aggregation, suitably in a dose amount of about 50-500 mg/day.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L30 ANSWER 15 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:592512 HCAPLUS Full-text

DOCUMENT NUMBER: 133:198565

TITLE: Pharmaceutical, cosmetic, and nutritional formulations containing natural antioxidants from Emblica officinalis fruit

INVENTOR(S): Ghosal, Shibnath

PATENT ASSIGNEE(S): Natreon Inc., USA

SOURCE: PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000048551	A1	20000824	WO 2000-US4043	20000216 <--
W:				
AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
RW:				
GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6124268	A	20000926	US 1999-251917	19990217 <--
US 6235721	B1	20010522	US 2000-503899	20000215 <--
CA 2362346	AA	20000824	CA 2000-2362346	20000216 <--
AU 2000029994	A5	20000904	AU 2000-29994	20000216 <--
EP 1156770	A1	20011128	EP 2000-908698	20000216 <--
R:				
AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRIORITY APPLN. INFO.:			US 1999-251917	A 19990217 <--
			US 2000-503899	A 20000215 <--
			WO 2000-US4043	W 20000216 <--

AB A natural antioxidant blend in the form of an amorphous powder was obtained by extraction from Emblica officinalis fruit. In this process, the finely pulped fruit was treated with a dilute aqueous salt solution at hot water temperature to provide an extract-containing solution, which was filtered and dried to provide the desired antioxidant blend powder. A synergistically stabilized composition of ascorbic acid or its derivs. with the antioxidant composition of Emblica officinalis, is also described. Cosmetic, pharmaceutical and nutritional use formulations thereof also are described. Fruits of E. officinalis were extracted with 1% sodium chloride according to above method and their stability was studied. Chewable tablets containing 12.26% of the above extract were prepared

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 16 OF 18 USPATFULL on STN

ACCESSION NUMBER: 2000:128301 USPATFULL Full-text

TITLE: Natural antioxidant compositions, method for obtaining same and cosmetic, pharmaceutical and nutritional formulations thereof

INVENTOR(S): Ghosal, Shibnath, Varanasi, India

PATENT ASSIGNEE(S): Natreon Inc., Highland Park, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6124268		20000926	<--
APPLICATION INFO.:	US 1999-251917		19990217	(9)
DOCUMENT TYPE:	Utility			
FILE SEGMENT:	Granted			
PRIMARY EXAMINER:	Krass, Frederick			
LEGAL REPRESENTATIVE:	Katz, Walter			
NUMBER OF CLAIMS:	13			
EXEMPLARY CLAIM:	1			
LINE COUNT:	663			

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A natural antioxidant blend in the form of an amorphous powder was obtained by extraction from *Embllica officinalis* fruit. In this process, the finely pulped fruit was treated with a dilute aqueous salt solution at hot water temperature to provide an extract-containing solution, which was filtered and dried to provide the desired antioxidant blend powder. Cosmetic, pharmaceutical and nutritional use formulations thereof also are described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L30 ANSWER 17 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:454361 HCAPLUS Full-text

DOCUMENT NUMBER: 129:197563

TITLE: Study on the inhibitory effect of tannins and flavonoids against the 1,1-diphenyl-2-picrylhydrazyl radical

AUTHOR(S): Yokozawa, Takako; Chen, Cui Ping; Dong, Erbo; Tanaka, Takashi; Nonaka, Gen-Ichiro; Nishioka, Itsuo

CORPORATE SOURCE: Research Institute for Wakan-Yaku, Toyama Medical and Pharmaceutical University, Toyama, 930-0194, Japan

SOURCE: Biochemical Pharmacology (1998), 56(2), 213-222

CODEN: BCPCA6; ISSN: 0006-2952

PUBLISHER: Elsevier Science Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Fifty-one tannins and forty-one flavonoids isolated from Oriental medicinal herbs were evaluated for their antioxidant ability with a 1,1-diphenyl-2-picrylhydrazyl (DPPH) radical-generating system. The results showed that tannins and certain flavonoids are potential free-radical scavengers, and that their activity against the DPPH radical is closely associated with their chemical structure. A comparison of the two classes of compds. showed that tannins have more potential than flavonoids because almost all the tannins demonstrated significant scavenging action within a low concentration range, whereas the activity of flavonoids varied distinctively among the different compds. An increase of galloyl groups, mol. weight, and ortho-hydroxyl structure enhanced the activity of tannins, whereas the number and position of hydroxyl groups were important features for the scavenging of free radicals by flavonoids. Moreover, it appeared that when the free hydroxyl group was methoxylated or glycosylated, the inhibitory activity was obviously decreased or even abolished.

REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 18 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1996:197464 HCAPLUS Full-text

DOCUMENT NUMBER: 124:255757

TITLE: A chemotaxonomic study on Euphorbiaceae in Korea  
AUTHOR(S): Ahn, Byung Tae; Lee, Seung Ho; Ro, Jai Seup; Lee, Kyong Soon  
CORPORATE SOURCE: Coll. Pharm., Chungbuk Natl. Univ., Cheongju, 360-763, S. Korea  
SOURCE: Natural Product Sciences (1995), 1(1), 86-98  
CODEN: NPSCFB  
PUBLISHER: Korean Society of Pharmacognosy  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB A chemosystematic study on euphorbiaceous plants in Korea has been performed by using phenolic constituents. The phenolic characteristics of subfamilies, genera and species were well distinguished from one another. Hydrolyzable tannins as constituents were considered to be a valuable taxonomic character in elucidating systematic relationships among the related taxa whereas flavonoids could be used in the classification of infraspecific taxa in this family. The phenolic fingerprints of each of the plants would be considered as a good tool to identify the species. In comparison with the morphol. classification system, the chemical relationship supported the subfamilial system of Webster (1975) and the further division of Euphorbia sensu lato by Hurusawa (1954).



SEARCH IN MEDLINE, BIOSIS, EMBASE, JAPIO, JICST

=> d que stat l21

L6 4 SEA FILE=REGISTRY ABB=ON (EMBLICANIN A OR EMBLICANIN B OR  
PEDUNCULAGIN OR PUNIGLUCONIN)/CN  
L7 1 SEA FILE=REGISTRY ABB=ON RUTIN/CN  
L8 6 SEA FILE=REGISTRY ABB=ON SILICONE FLUID?/CN  
L9 0 SEA FILE=REGISTRY ABB=ON ORGANIC ESTER?/CN  
L12 211 SEA FILE=HCAPLUS ABB=ON L6 OR (EMBLICANIN) (W) (A OR B) OR  
PEDUNCULAGIN OR PUNIGLUCONIN  
L13 10 SEA FILE=HCAPLUS ABB=ON L12 AND (L7 OR ?RUTIN?)  
L14 1 SEA FILE=HCAPLUS ABB=ON L13 AND (?ANHYDR? OR NON?(W)?AQUEOUS?)  
L15 2 SEA FILE=HCAPLUS ABB=ON L12 AND (L8 OR ?SILICONE?(W)?FLUID?  
OR L9 OR ?ORGANIC?(W)?ESTER? OR ?GLYCOL?)  
L16 11 SEA FILE=HCAPLUS ABB=ON L13 OR L14 OR L15  
L20 2 SEA L16  
L21 2 DUP REMOV L20 (0 DUPLICATES REMOVED)

=> d ibib abs l21 1-2

L21 ANSWER 1 OF 2 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights  
reserved on STN

ACCESSION NUMBER: 2005209372 EMBASE Full-text

TITLE: Oxidized ellagitannins in medicinal plants and their  
biological activities.

AUTHOR: Ito H.

CORPORATE SOURCE: H. Ito, Grad. Sch. of Nat. Sci. and Technol., Okayama  
University, Tsushima, Okayama 700-8530, Japan

SOURCE: Natural Medicines, (2005) Vol. 59, No. 2, pp. 57-62. .  
Refs: 21

ISSN: 1340-3443 CODEN: NMEDEO

COUNTRY: Japan

DOCUMENT TYPE: Journal; General Review

FILE SEGMENT: 006 Internal Medicine  
037 Drug Literature Index

LANGUAGE: Japanese

SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 26 May 2005

Last Updated on STN: 26 May 2005

AB Geraniin and related dehydroellagitannins having a reactive  
dehydrohexahydroxydiphenoyl (DHHDP) group in the molecule have been widely  
found in the euphorbiaceous and geraniaceous plants. Further investigation on  
the polyphenols in *Phyllanthus flexuosus*, *Acalypha hispida* and *Geranium*  
*thunbergii* belonging to each family resulted in the isolation of eleven new  
analogues of geraniin and the characterization of their complex structures  
possessing a new highly oxidized acyl unit produced from the DHHDP group. New  
highly oxidized ellagitannins of other types, i.e., those having a gluconic  
acid core and C-glucosidic ellagitannin oligomers were also found in  
*Elaeagnaceae* and *Fagaceae*. Diverse biological properties including anti-ulcer  
and anti-tumor promoting effects, and antibacterial activity against  
*Helicobacter pylori* and antifungal activity were also exhibited by those  
highly oxidized ellagitannins.

L21 ANSWER 2 OF 2 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights  
reserved on STN

ACCESSION NUMBER: 2004177277 EMBASE Full-text

TITLE: Antibacterial Activity of Hydrolyzable Tannins Derived from  
Medicinal Plants against *Helicobacter pylori*.

AUTHOR: Funatogawa K.; Hayashi S.; Shimomura H.; Yoshida T.; Hatano T.; Ito H.; Hirai Y.  
CORPORATE SOURCE: Dr. S. Hayashi, Division of Bacteriology, Department of Infection and Immunity, Jichi Medical School, 3311-1 Yakushiji, Minamikawachi, Tochigi 329-0498, Japan.  
shunhaya@jichi.ac.jp  
SOURCE: Microbiology and Immunology, (2004) Vol. 48, No. 4, pp. 251-261. .  
Refs: 56  
ISSN: 0385-5600 CODEN: MIIMDV  
COUNTRY: Japan  
DOCUMENT TYPE: Journal; Article .  
FILE SEGMENT: 004 Microbiology  
030 Pharmacology  
037 Drug Literature Index  
LANGUAGE: English  
SUMMARY LANGUAGE: English  
ENTRY DATE: Entered STN: 13 May 2004  
Last Updated on STN: 13 May 2004

AB Helicobacter pylori is a major etiological agent in gastroduodenal disorders. In this study, we isolated 36 polyphenols and 4 terpenoids from medicinal plants, and investigated their antibacterial activity against H. pylori in vitro. All hydrolyzable tannins tested demonstrated promising antibacterial activity against H. pylori. Monomeric hydrolyzable tannins revealed especially strong activity. Other compounds demonstrated minimal antibacterial activity with a few exceptions. A monomeric hydrolyzable tannin, Tellimagrandin I demonstrated time- and dose-dependent bactericidal activity against H. pylori in vitro. On the other hand, hydrolyzable tannins did not affect the viability of MKN-28 cells derived from human gastric epithelium. Hydrolyzable tannins, therefore, have potential as new and safe therapeutic regimens against H. pylori infection. Furthermore, we investigated effects of hydrolyzable tannins on lipid bilayer membranes. All the hydrolyzable tannins tested demonstrated dose-dependent membrane-damaging activity. However, it remains to be elucidated whether their membrane-damaging activity directly contributes to their antibacterial action.

# SEARCH HISTORY

=> d his ful

(FILE 'HOME' ENTERED AT 16:34:46 ON 29 NOV 2006)

FILE 'HCAPLUS' ENTERED AT 16:35:19 ON 29 NOV 2006

E CHAUDHURI RATAN K/AU

L1 94 SEA ABB=ON ("CHAUDHURI RATAN"/AU OR "CHAUDHURI RATAN C"/AU OR  
"CHAUDHURI RATAN K"/AU OR "CHAUDHURI RATAN KUMAR"/AU)  
E LINZ PHILIP/AU  
L2 8 SEA ABB=ON ("LINZ PHIL"/AU OR "LINZ PHILIP"/AU)  
L3 4 SEA ABB=ON L1 AND L2  
L4 2 SEA ABB=ON L3 AND ?ANHYDROUS?  
L5 ANALYZE L4 1-2 CT : 20 TERMS

FILE 'REGISTRY' ENTERED AT 16:42:33 ON 29 NOV 2006

L6 4 SEA ABB=ON (EMBLICANIN A OR EMBLICANIN B OR PEDUNCULAGIN OR  
PUNIGLUCONIN)/CN  
L7 1 SEA ABB=ON RUTIN/CN  
E SILICONE FLUID/CN  
L8 6 SEA ABB=ON SILICONE FLUID?/CN  
L9 0 SEA ABB=ON ORGANIC ESTER?/CN  
L10 0 SEA ABB=ON GLYCOLS/CN  
L11 3142 SEA ABB=ON GLYCOL?/CN

FILE 'HCAPLUS' ENTERED AT 16:44:23 ON 29 NOV 2006

L12 211 SEA ABB=ON L6 OR (EMBLICANIN) (W) (A OR B) OR PEDUNCULAGIN OR  
PUNIGLUCONIN  
L13 10 SEA ABB=ON L12 AND (L7 OR ?RUTIN?)  
L14 1 SEA ABB=ON L13 AND (?ANHYDR? OR NON?(W) ?AQUEOUS?)  
L15 2 SEA ABB=ON L12 AND (L8 OR ?SILICONE?(W) ?FLUID? OR L9 OR  
?ORGANIC?(W) ?ESTER? OR ?GLYCOL?)  
L16 11 SEA ABB=ON L13 OR L14 OR L15  
L17 0 SEA ABB=ON L16 AND 01% \*  
L18 0 SEA ABB=ON L17 AND .01% \*  
L19 9 SEA ABB=ON L16 AND (PRD<20030710 OR PD<20030710)

FILE 'MEDLINE, BIOSIS, EMBASE, JAPIO, JICST-EPLUS' ENTERED AT 16:53:59 ON  
29 NOV 2006

L20 2 SEA ABB=ON L16  
L21 2 DUP REMOV L20 (0 DUPLICATES REMOVED)

FILE 'USPATFULL' ENTERED AT 17:06:12 ON 29 NOV 2006

L22 25 SEA ABB=ON L6 OR (EMBLICANIN) (W) (A OR B) OR PEDUNCULAGIN OR  
PUNIGLUCONIN  
L23 18 SEA ABB=ON L22 AND (L7 OR ?RUTIN?)  
L24 6 SEA ABB=ON L23 AND (?ANHYDR? OR NON?(W) ?AQUEOUS?)  
L25 2 SEA ABB=ON L23 AND (L8 OR ?SILICONE?(W) ?FLUID? OR L9 OR  
?ORGANIC?(W) ?ESTER?)  
L26 18 SEA ABB=ON L23 OR L24 OR L25  
L27 14 SEA ABB=ON L26 AND .01% \*  
L28 18 SEA ABB=ON L26 OR L27  
L29 12 SEA ABB=ON L28 AND (PRD<20030710 OR PD<20030710)

FILE 'HCAPLUS, USPATFULL' ENTERED AT 18:15:29 ON 29 NOV 2006

L30 18 DUP REMOV L19 L29 (3 DUPLICATES REMOVED)

\* Online searching is not a reliable way to identify numeric data, e.g., %'s

because  
of the wide variety of expressions of that data from one citation to another.  
Please review  
the abstracts manually to determine the numeric data you requested.

FILE HOME

FILE HCAPLUS

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FILE COVERS 1907 - 29 Nov 2006 VOL 145 ISS 23  
FILE LAST UPDATED: 27 Nov 2006 (20061127/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 27 NOV 2006 HIGHEST RN 914071-04-8  
DICTIONARY FILE UPDATES: 27 NOV 2006 HIGHEST RN 914071-04-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

FILE USPATFULL

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 28 Nov 2006 (20061128/PD)  
FILE LAST UPDATED: 28 Nov 2006 (20061128/ED)  
HIGHEST GRANTED PATENT NUMBER: US7143445  
HIGHEST APPLICATION PUBLICATION NUMBER: US2006265800  
CA INDEXING IS CURRENT THROUGH 28 Nov 2006 (20061128/UPCA)  
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 28 Nov 2006 (20061128/PD)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2006  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2006

FILE MEDLINE

FILE LAST UPDATED: 28 Nov 2006 (20061128/UP). FILE COVERS 1950 TO DATE.

On December 11, 2005, the 2006 MeSH terms were loaded.

The MEDLINE reload for 2006 is now (26 Feb.) available. For details on the 2006 reload, enter HELP RLOAD at an arrow prompt (=>).

See also:

<http://www.nlm.nih.gov/mesh/>

[http://www.nlm.nih.gov/pubs/techbull/nd04/nd04\\_mesh.html](http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html)

[http://www.nlm.nih.gov/pubs/techbull/nd05/nd05\\_med\\_data\\_changes.html](http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_med_data_changes.html)

[http://www.nlm.nih.gov/pubs/techbull/nd05/nd05\\_2006\\_MeSH.html](http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_2006_MeSH.html)

OLDMEDLINE is covered back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2006 vocabulary.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE BIOSIS

FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 22 November 2006 (20061122/ED)

FILE EMBASE

FILE COVERS 1974 TO 29 Nov 2006 (20061129/ED)

EMBASE has been reloaded. Enter HELP RLOAD for details.

EMBASE is now updated daily. SDI frequency remains weekly (default) and biweekly.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE JAPIO

FILE LAST UPDATED: 20 NOV 2006 <20061120/UP>

FILE COVERS APRIL 1973 TO JULY 27, 2006

>>> GRAPHIC IMAGES AVAILABLE <<<

>>> NEW IPC8 DATA AND FUNCTIONALITY NOW AVAILABLE IN FILE JAPIO.

SEE HELP CHANGE

AND

[http://www.stn-international.de/stndatabases/details/ipc\\_reform.html](http://www.stn-international.de/stndatabases/details/ipc_reform.html) <<<

FILE JICST-EPLUS

FILE COVERS 1985 TO 27 NOV 2006 (20061127/ED)

THE JICST-EPLUS FILE HAS BEEN RELOADED TO REFLECT THE 1999 CONTROLLED TERM (/CT) THESAURUS RELOAD.